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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/487,593	01/19/2000	Shinya Matsuoka	10476-013002	3339
7590	10/07/2005		EXAMINER	
RICHARD F. JAWORSKI COOPER & DUNHAM LLP 1185 AVENUE OF THE AMERICAS NEW YORK, NY 10036			DINH, KHANH Q	
			ART UNIT	PAPER NUMBER
			2151	
DATE MAILED: 10/07/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/487,593	MATSUOKA, SHINYA
Examiner	Art Unit	
Khanh Dinh	2151	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 28 October 2002.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 26-45 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 26-45 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>1/9/00</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/28/2002 has been entered.

2. Claims 26-45 are presented for examination.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 26-37, 39-42, 44 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bruno et al U.S. pat. No. 5,710,591 in view of Cohen et al, IEEE

1993, "Virtual gain for audio windows." As to claims 26 and 29, Bruno discloses an audio conference server (ACS) comprising:

- receiving (MCU 26 fig. I) audio data from source of audio client (see fig. I and col. I lines 2951). Bruno does not specifically disclose the attenuated mixer for audio data. However, Cohen discloses a mixing means for providing distance-based attenuation according to sound decay characteristics to stimulate a distance between a distance between the source audio client and a target audio client (the distance -dependent gain parameter used in MAW (moving source/moving sink), see Cohen's section 1.2, distance dependent-gain and fig.3), delivering attenuated audio data to target or source audio client (transferring data to multiple audio resources, see page 85, section 0.1) and each audio client is assigned a selected decay characteristic of a plurality characteristics (transferring data to multiple audio resources and letting listeners later parameters among teleconferees, see pages 85-88). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize Cohen's attenuated data mixer in Bruno's audio conference server to control the volume of a sound source and a listener because it would have allowed multiple simultaneous audio sources to coexist in a modifiable display without user stress (see Cohen's section 0.1).

As to claim 27, Bruno discloses the target audio client is the same as the source audio client (see col.4 line 44 to col.5 line 40).

As to claim 28, Bruno discloses the target audio client is different than the source audio client (see col.5 line 33 to col.6 line 46).

As to claim 30, Bruno discloses the source and target audio clients are displayed as points on a viewing screen from which sound appears to emanate (see col.6 lines 1-46).

As to claim 31, Bruno further discloses the source audio client comprises a point source audio (PSA) client that originates from stored audio data (see audio sources and the participants of the teleconference, see col.7 lines 27-64).

As to claim 32, Bruno discloses the PSA includes point sources of sound from a file or user input (see fig.2, col.6 line 47 to col.7 line 38).

As to claim 33, Bruno discloses the source audio client comprises a set-top box (STB) audio client the originates from an audio conferencing user (see col.7 lines 1-64).

As to claim 34, Bruno discloses the STB including a set-top application for controlling audio data from a microphone or speaker (see col.5 lines 8-67 and col.7 lines 27-64).

As to claim 35, Bruno discloses the target audio client comprises a set-top box (STB) audio client that originates from an audio conferencing user (see col.5 lines 8-67 and col.7 lines 27-64).

Claim 36 is rejected for the same reasons set forth in claim 34.

As to claim 37, Bruno discloses a plurality of audio clients participate in an audio conference (see co14 line 44 to co1.5 line 32).

As to claims 39 and 40, Cohen further discloses attenuating comprises identifying a decay factor for each audio client and the decay factor is a customized decay factor (see Cohen's section 1.2 and fig.3). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize Cohen's attenuated data mixer in Bruno's audio conference server to control the volume of a sound source and a listener because it would have allowed multiple simultaneous audio sources to coexist in a modifiable display without user stress (see Cohen's section 0.1).

As to claims 41 and 42, Cohen further discloses determining a weighted value between the source audio client and the target audio client based on the source audio client's decay factor (see Cohen's section 1.2 and fig.3) and attenuating further comprising calculating a mix for the audio clients using the weighted values (i.e., calculating parameters, see Cohen's section 0.1). It would have been obvious to one of ordinary

skill in the art at the time of the invention was made to utilize Cohen's attenuated data mixer in Bruno's audio conference server to control the volume of a sound source and a listener because it would have allowed multiple simultaneous audio sources to coexist in a modifiable display without user stress (see Cohen's section 0.1).

Claim 44 is rejected for the same reasons set forth in claim 26.

As to claim 45, Cohen further discloses the decay factor is a customized decay factor (see Cohen's section 1.2 and fig.3). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize Cohen's attenuated data mixer in Bruno's audio conference server to control the volume of a sound source and a listener because it would have allowed multiple simultaneous audio sources to coexist in a modifiable display without user stress (see Cohen's section 0.1).

5. Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bruno and Cohen as applied to claim 26 above, and further in view of Nelson et al., US pat. No.5,452,447.

Neither Bruno nor Cohen discloses using an Interface Definition Language (IDL) to delete, add participants. However, the use of IDL software is generally well known in the art as disclosed by Nelson (see col.6 lines 25-62). It would have been obvious to one of the ordinary skill in the art at the time the invention was made to implement a well-known software such as IDL in the system of Bruno to add or delete participants in

the ACS because it would have requested a creation of an object, to perform remote procedure calls in a client-server network environment (see col.6 lines 25-62).

6. Claim 43 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bruno and Cohen as applied to claim 26 above, and further in view of Everett US pat. No.5,864,816.

Braun and Cohen's teachings still applied as in item 4 above. Neither Braun nor Cohen discloses a fade in/fade out function (scale factors) to avoid the delivery of said data in a step-wise manner to a speaker output (see abstract, col. I line 57 to col.2 line 22). However, Everett discloses: A floating point operation elimination function (see 40 of fig.2) to avoid the performance of floating point multiplication (identifying scale factor functions to determine the excess of a predetermined threshold, see co1.2 lines 30-63, col.4 lines I 0-54). A stream data function to prepare stream audio (MPEG streams) for playing ambient background music or using an audio source forwarded from another conference (see fig. 1, col.3 lines 20-65). It would have been obvious to one of the ordinary skill in the art at the time the invention was made to Everett's teachings into Braun's audio system to facilitate the mixings of data streams because it would have facilitated the mixings of audio data in compressed forms.

Response to Arguments

7. Applicant's arguments with respect to claims 26-45 have been considered but are moot in view of the new ground(s) of rejection.

Other prior art cited

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Whitehead et al, US pat. No.6,085,030.

Conclusion

9. Claims 26-45 are rejected.
10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Dinh whose telephone number is (571) 272-3936. The examiner can normally be reached on Monday through Friday from 8:00 A.m. to 5:00 P.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung, can be reached on (571) 272-3939. The fax phone number for this group is (571) 273-8300.

A shortened statutory period for reply is set to expire THREE months from the mailing date of this communication. Failure to response within the period for response will cause the application to become abandoned (35 U. S. C . Sect. 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(A).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Khanh Dinh
Patent Examiner
Art Unit 2151
9/30/2005